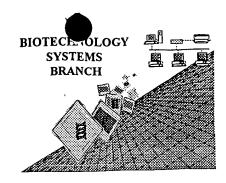
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

09/674,368

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

- PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

i	ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/	674,360
ATTN	I: NEW RULES CASES: P	LEASE DISREGARD ENGLISH "ALPHA" HE	ADERS, WHICH WERE INSERTED BY PT	O SOFTWARE
1 1	Wrapped Nucleics	The number/text at the end of each line "wrap		_
		This may occur if your file was retrieved in a		
		Please adjust your right margin to .3, as this		,
	Wrapped Aminos	The amino acid number/lext at the end of each	th line "wrapped " down to the next line.	•
-	. Triapped / Illinos	This may occur if your file was retrieved in a		
	Please adjust your right margin to .3, as this will prevent "wrapping".			
3	Incorrect Line Length	The rules require that a line not exceed 72 ch	aracters in length. This includes spaces.	
4	Misaligned Amino Acid	The numbering under each 5th amino acid is	misaligned. This may be caused by the use	of tabs
1	Numbering	between the numbering. It is recommended to		
5 <u>/</u>	Non-ASCII	This file was not saved in ASCII (DOS) text,	as required by the Sequence Rules.	
		Please ensure your subsequent submission i	s saved in ASCII text so that it can be proces	sed.
			10 market 10 mar	
6	Variable Length	Sequence(s) contain n's or Xaa's which	represented more than one residue.	
	•	As per the rules, each n or Xaa can only repre	esent a single residue.	
		Please present the maximum number of each		
	•	indicate in the (ix) feature section that some	nay be missing.	
7	Patentin ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused th	e <220>-<223> section to be missing from a	mino acid
		sequence(s) Normally, Pate		
			ase manually copy the relevant <220>-<223>	
			is applies primarily to the mandatory <22	
	1	sections for Artificial or Unknown sequen	ces.	ange y e
	Chinned Coguenose	Sequence(s) missing. If intentional, plea	see use the following format for each skipped	seguence.
°	Skipped Sequences	(2) INFORMATION FOR SEQ ID NO:X:	ase use the following format for each skipped	sequence.
	(OLD RULES)	(i) SEQUENCE CHARACTERISTICS:(Do no	ot insert any headings under "SEQUENCE C	HARACTERISTICS")
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO		,
		This sequence is intentionally skipped		
				227/127/20
	·	Please also adjust the "(iii) NUMBER OF SE	20ENCES: response to include the skipped	sequence(s).
9	Skipped Sequences	Sequence(s) missing. If intentional, plea	se use the following format for each skipped	sequence.
	(NEW RULES)	<210> sequence id number		
		<400> sequence id number		
		000		
10	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in	the Sequence Listing.	
	(NEW RULES)	Use of <220> to <223> is MANDATORY if n'		
		In <220> to <223> section, please explain loc	ation of n or Xaa, and which residue n or Xa	a represents.
1	Use of <213>Organism	Sequence(s) are missing this manda	atory field or its response	
· ·	(NEW RULES)	Sequence(s) are missing and months.	-	
	-	•	·	.•
2	Use of <220>Feature	Sequence(s) are missing the <220>Fea	ure and associated headings.	
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <2	213>ORGANISM is "Artificial" or "Unknown"	·
		Please explain source of genetic material		
/	^	(See "Federal Register," 6/01/98, V	ol. 63, No. 104, pp. 29631-32) (s	Sec. 1.823 of new Rules)
.1/	0.4 41 0.0	Disease de met use "Conste Diels" forsties	of Patentle version 2.0. This causes a co	rrupted
J <u>V</u>	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function		

AKS-Biotechnology Systems Branch- 5/15/99

Instead, please use "File Manager" or any other means to copy file to floppy disk.

PCT

RAW SEQUENCE LISTING

DATE: 03/07/2001

PATENT APPLICATION: US/09/674,368

TIME: 11:37:48

Does Not Comply
Corrected Diskette Needed

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03072001\1674368.raw

5 <110> APPLICANT: American Cyanamid Company

7 <120> TITLE OF INVENTION: Vaccines Containing Recombinant Pilin Against Neisseria

9 Gonorrhoeae or Neisseria Meningitidis

11 <130> FILE REFERENCE: 33377-00/PCT

13 <140> CURRENT APPLICATION NUMBER: US/09/674,368

14 <141> CURRENT FILING DATE: 2000-10-27

16 <160> NUMBER OF SEQ ID NOS: 24

18 <170> SOFTWARE: PatentIn Ver. 2.0

sel dem 5 on End Summany Sheet

more up - format enow (see idem I on Evan Summary Sheet)

ERRORED SEQUENCES

299 <210> SEQ ID NO: 13

300 <211> LENGTH: 31 301 <212> TYPE: DNA

303 <213> ORGANISM: Neisseria Meningitidis Class I

305 <400> SEQUENCE: 13

E--> 306 ccggcgcgtc tctcacggcg aatggcccgg c

307

396 <210> SEQ ID NO: 24

397 <211> LENGTH: 22

398 <212> TYPE: PRT

399 <213> ORGANISM: Neisseria gonorrhoeae

404 <400> SEQUENCE: 24

405 Glu Ala Ile Leu Leu Ala Glu Gly Gln Lys Ser Ala Val Thr Glu Tyr

31 .

406 1 5

20

408 Tyr Leu Asn His Gly Lys

E--> 410 E--> 441/1 E--> 443/8

445 ACY-33377-00

delete at end I file

see following pages for more error

Input Set : A:\Pto.amc Output Set: N:\CRF3\03142001\I674368.raw 2 <110> APPLICANT: American Cyanamid Company 4 <120> TITLE OF INVENTION: Vaccines Containing Recombinant Pilin Against Neisseria Gonorrhoeae or Neisseria Meningitidis 8 <130> FILE REFERENCE: 33377-00/PCT C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/674,368 C--> 11 <141> CURRENT FILING DATE: 2000-10-27 13 <160> NUMBER OF SEQ ID NOS: 24 15 <170> SOFTWARE: PatentIn Ver. 2.0 17 <210> SEQ ID NO: 1 18 <211> LENGTH: 504 19 <212> TYPE: DNA 20 <213> ORGANISM: Artificial Sequence 22 <220> FEATURE: 23 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric of Neisseria Meningitidis Class I and Neisseria 25 Gonorrhoeae 27 <220> FEATURE: 28 <221> NAME/KEY: CDS 29 <222> LOCATION: (1)..(501) 31 <400> SEQUENCE: 1 33 atg gat acc ctt caa aaa ggc ttt acc ctt atc gag ctg atg att gtg 48 34 Met Asp Thr Leu Gln Lys Gly Phe Thr Leu Ile Glu Leu Met Ile Val 5 10 37 atc gcc atc gtc ggc att ttg gcg gca gtc gcc ctt ccc gcc tac caa 96 38 Ile Ala Ile Val Gly Ile Leu Ala Ala Val Ala Leu Pro Ala Tyr Gln 20 25 41 gac tac acc gcc cgc gcg caa gtt tcc gaa gcc atc ctt ttg gcc gaa 144 42 Asp Tyr Thr Ala Arg Ala Gln Val Ser Glu Ala Ile Leu Leu Ala Glu 35 40 45 ggt caa aaa tca gee gtt ace gag tat tae etg aat eae gge gaa tgg 192 46 Gly Gln Lys Ser Ala Val Thr Glu Tyr Tyr Leu Asn His Gly Glu Trp 55 49 ccc ggc aac aac act tet gee gge gtg gea tet tet tea aca ate aaa 240 50 Pro Gly Asn Asn Thr Ser Ala Gly Val Ala Ser Ser Ser Thr Ile Lys lyred arrest and 55 ggc aaa tat gtt aag gaa gtt aca gtc gca aac ggc gtc att acc gcc 288 56 Gly Lys Tyr Val Lys Glu Val Thr Val Ala Asn Gly Val Ile Thr Ala
57 85 96 90 95 95 85 تحور 95 85 .ቃው 59 aca atg ctt tca agc ggc gta aac aaa gaa atc caa ggc aaa aaa ctc 336 60 Thr Met Leu Ser Ser Gly Val Asn Lys Glu Ile Gln Gly Lys Lys Leu 100 105 63 too otg tgg goo aag ogt caa gao ggt tog gta aaa tgg tto tgo gga 384 64 Ser Leu Trp Ala Lys Arg Gln Asp Gly Ser Val Lys Trp Phe Cys Gly 65 115 120 67 cag ccg gtt acg cgc acc gac gcc aaa gcc gac acc gtc gcc gcc 432

DATE: 03/14/2001

TIME: 12:10:34

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/674,368

68 Gln Pro Val Thr Arg Thr Asp Ala Lys Ala Asp Thr Val Ala Ala Ala

135

130

W--> 69

VERIFICATION SUMMARY DATE: 03/07/2001 PATENT APPLICATION: US/09/674,368 TIME: 11:37:50

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03072001\1674368.raw

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L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:60 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:64 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:68 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:72 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:76 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:80 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:87 M:258 W: Mandatory Feature missing, <220> FEATURE:
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L:194 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:194 M:258 W: Mandatory Feature missing, <220> OTHER INFORMATION:
L:306 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:31 SEQ:13
L:441 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24
M:332 Repeated in SeqNo=24
```

Input Set : A:\Pto.amc Output Set: N:\CRF3\03142001\1674368.raw 142 144 atc gcc atc gtc ggt atc ttg gca gcc gtc gcc ctg ccc gca tac caa 96 145 Ile Ala Ile Val Gly Ile Leu Ala Ala Val Ala Leu Pro Ala Tyr Gln 20 25 148 gac tac acc gcg cgc gcc caa atg tcc gaa gcc ctg act ttg gca gaa 149 Asp Tyr Thr Ala Arg Ala Gln Met Ser Glu Ala Leu Thr Leu Ala Glu 152 ggt caa aaa tcc gca gtg atc gag tat tat tcc gac aac ggc aca ttc 153 Gly Gln Lys Ser Ala Val Ile Glu Tyr Tyr Ser Asp Asn Gly Thr Phe 55 156 ccg aac agc aat act tcc gca ggt att gct gcc tct aac gag att aaa 240 157 Pro Asn Ser Asn Thr Ser Ala Gly Ile Ala Ala Ser Asn Glu Ile Lys 7.0 75 160 ggt aag tat gtg gca tcg gtt aag gtt gaa ggt aat gcc tct gtt gct 288 161 Gly Lys Tyr Val Ala Ser Val Lys Val Glu Gly Asn Ala Ser Val Ala 85 90 164 tot att acc get acc atg aac tot agt aat gtg aat aag gac atc aaa 336 165 Ser Ile Thr Ala Thr Met Asn Ser Ser Asn Val Asn Lys Asp Ile Lys 100 105 169 ggt aaa acc ttg gta ctc gtc ggc aaa caa aac tcc ggt tcg gta aaa 384 170 Gly Lys Thr Leu Val Leu Val Gly Lys Gln Asn Ser Gly Ser Val Lys 120 173 tgg ttc tgc gga cag ccg gtt acg cgc gac aac gcc gac aac gac gac 174 Trp Phe Cys Gly Gln Pro Val Thr Arg Asp Asn Ala Asp Asn Asp Asp 130 135 140 177 gtc aaa gac gcc ggc aac aac ggc atc gaa acc aag cac ctg ccg tca 480 178 Val Lys Asp Ala Gly Asn Asn Gly Ile Glu Thr Lys His Leu Pro Ser 179 145 150 181 acc tgc cgc gat acg tca tct gat gcc aaa 510 182 Thr Cys Arg Asp Thr Ser Ser Asp Ala Lys 186 <210> SEQ ID NO: 4 187 <211> LENGTH: 170 188 <212> TYPE: PRT Dand enn-see item 13

on Eva

Lu Leu Met Ile Val

15

eu Pro Ala Tyr Gln

Lunnary Heut 189 213 ORGANISM: Artificial Sequence W--> 191 (220) FEATURE: W--> 19 <223 OTHER INFORMATION: 191 <400> SEQUENCE: 4 192 Met Glu Ala Ile Gln Lys Gly Phe Thr Leu Ile Glu Leu Met Ile Val 193 1 - 5 10 195 Ile Ala Ile Val Gly Ile Leu Ala Ala Val Ala Leu Pro Ala Tyr Gln 20 25 198 Asp Tyr Thr Ala Arg Ala Gln Met Ser Glu Ala Leu Thr Leu Ala Glu 35 201 Gly Gln Lys Ser Ala Val Ile Glu Tyr Tyr Ser Asp Asn Gly Thr Phe 55 204 Pro Asn Ser Asn Thr Ser Ala Gly Ile Ala Ala Ser Asn Glu Ile Lys 70 75

DATE: 03/14/2001

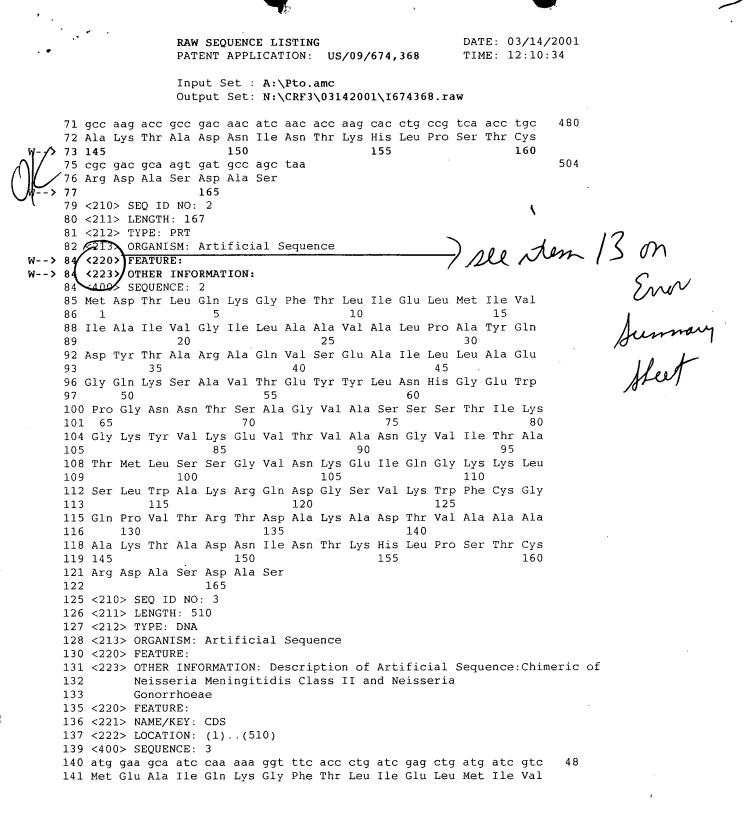
TIME: 12:10:34

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/674,368

BEST AVAILABLE COPY

207 Gly Lys Tyr Val Ala Ser Val Lys Val Glu Gly Asn Ala Ser Val Ala



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